RAW SEQUENCE LISTING

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Application Serial Number: _____ 10/557,586 _____

Source: _____ PCT _____

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RAW SEQUENCE LISTING   DATE: 12/02/2005
PATENT APPLICATION: US/10/557,586 TIME: 11:49:12

Input Set : **A:\PTO.SR.txt**
Output Set: **N:\CRF4\12022005\J557586.raw**

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 3 <110> APPLICANT: Maria Assunta, Costa
 4          Domenico, Geraci
 5          Paolo, Colombo
 6          Rosa, Passantino
 7          Angela, Bonura
 9 <120> TITLE OF INVENTION: HYPOALLERGENIC VARIANTS OF PARIETARIA JUDAICA MAJOR
ALLERGENS, USES AND
10          COMPOSITIONS THEREOF
12 <130> FILE REFERENCE: 82045 PCT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/557,586
C--> 14 <141> CURRENT FILING DATE: 2005-11-17
14 <160> NUMBER OF SEQ ID NOS: 20
16 <170> SOFTWARE: PatentIn version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 139
20 <212> TYPE: PRT
21 <213> ORGANISM: Parietaria judaica
23 <400> SEQUENCE: 1
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26 1               5                   10                  15
29 Phe Val Gln Gly Lys Glu Lys Glu Pro Ser Lys Gly Cys Cys Ser Gly
30              20                  25                  30
33 Ala Lys Arg Leu Asp Gly Glu Thr Lys Thr Gly Pro Gln Arg Val His
34          35                  40                  45
37 Ala Cys Glu Cys Ile Gln Thr Ala Met Lys Thr Tyr Ser Asp Ile Asp
38      50                  55                  60
41 Gly Lys Leu Val Ser Glu Val Pro Lys His Cys Gly Ile Val Asp Ser
42 65                  70                  75                  80
45 Lys Leu Pro Pro Ile Asp Val Asn Met Asp Cys Lys Thr Val Gly Val
46              85                  90                  95
49 Val Pro Arg Gln Pro Gln Leu Pro Val Ser Leu Arg His Gly Pro Val
50              100                 105                 110
53 Thr Gly Pro Ser Asp Pro Ala His Lys Ala Arg Leu Glu Arg Pro Gln
54          115                 120                 125
57 Ile Arg Val Pro Pro Pro Ala Pro Glu Lys Ala
58      130                 135
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 139
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: mutagenized Parj1
69 <400> SEQUENCE: 2
71 Gln Glu Thr Cys Gly Thr Met Val Arg Ala Leu Met Pro Cys Leu Pro
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72  1               5                   10                  15
75  Phe Val Gln Gly Lys Glu Ala Ala Pro Ser Ala Gly Cys Cys Ser Gly
76              20                  25                  30
79  Ala Lys Arg Leu Asp Gly Glu Thr Lys Thr Gly Pro Gln Arg Val His
80              35                  40                  45
83  Ala Cys Glu Cys Ile Gln Thr Ala Met Lys Thr Tyr Ser Asp Ile Asp
84      50                  55                  60
87  Gly Lys Leu Val Ser Glu Val Pro Lys His Cys Gly Ile Val Asp Ser
88  65                  70                  75                  80
91  Lys Leu Pro Pro Ile Asp Val Asn Met Asp Cys Lys Thr Val Gly Val
92              85                  90                  95
95  Val Pro Arg Gln Pro Gln Leu Pro Val Ser Leu Arg His Gly Pro Val
96              100                 105                 110
99  Thr Gly Pro Ser Asp Pro Ala His Lys Ala Arg Leu Glu Arg Pro Gln
100             115                 120                 125
103 Ile Arg Val Pro Pro Pro Ala Pro Glu Lys Ala
104         130                 135
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 102
109 <212> TYPE: PRT
110 <213> ORGANISM: Parietaria judaica
112 <400> SEQUENCE: 3
114 Glu Glu Ala Cys Gly Lys Val Val Gln Asp Ile Met Pro Cys Leu His
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118 Phe Val Lys Gly Glu Glu Lys Glu Pro Ser Lys Glu Cys Cys Ser Gly
119             20                  25                  30
122 Thr Lys Lys Leu Ser Glu Glu Val Lys Thr Thr Glu Gln Lys Arg Glu
123         35                  40                  45
126 Ala Cys Lys Cys Ile Val Arg Ala Thr Lys Gly Ile Ser Gly Ile Lys
127     50                  55                  60
130 Asn Glu Leu Val Ala Glu Val Pro Lys Lys Cys Asp Ile Lys Thr Thr
131 65                  70                  75                  80
134 Leu Pro Pro Ile Thr Ala Asp Phe Asp Cys Ser Lys Ile Gln Ser Thr
135             85                  90                  95
138 Ile Phe Arg Gly Tyr Tyr
139             100
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 102
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: mutagenized Parj2
150 <400> SEQUENCE: 4
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156 Phe Val Lys Gly Glu Glu Ala Ala Pro Ser Ala Glu Cys Cys Ser Gly
157             20                  25                  30
160 Thr Lys Lys Leu Ser Glu Glu Val Lys Thr Thr Glu Gln Lys Arg Glu
161         35                  40                  45
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164 Ala Cys Lys Cys Ile Val Arg Ala Thr Lys Gly Ile Ser Gly Ile Lys
165     50              55              60
168 Asn Glu Leu Val Ala Glu Val Pro Lys Lys Cys Asp Ile Lys Thr Thr
169 65              70              75              80
172 Leu Pro Pro Ile Thr Ala Asp Phe Asp Cys Ser Lys Ile Gln Ser Thr
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177             100
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185 <220> FEATURE:
186 <223> OTHER INFORMATION: primer
188 <400> SEQUENCE: 5
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194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: primer
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205 <211> LENGTH: 24
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207 <213> ORGANISM: Artificial Sequence
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210 <223> OTHER INFORMATION: primer
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218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
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222 <223> OTHER INFORMATION: primer
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234 <223> OTHER INFORMATION: primer
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257 <220> FEATURE:
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277 <211> LENGTH: 36
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279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: primer
284 <400> SEQUENCE: 13
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289 <211> LENGTH: 30
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: primer
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303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
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313 <211> LENGTH: 24
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315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: primer
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325 <211> LENGTH: 24
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: primer
332 <400> SEQUENCE: 17
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336 <210> SEQ ID NO: 18
337 <211> LENGTH: 24
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial Sequence
341 <220> FEATURE:
342 <223> OTHER INFORMATION: primer
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348 <210> SEQ ID NO: 19
349 <211> LENGTH: 24
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial Sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: primer
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362 <212> TYPE: DNA
363 <213> ORGANISM: Artificial Sequence
365 <220> FEATURE:
366 <223> OTHER INFORMATION: primer
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VERIFICATION SUMMARY   DATE: 12/02/2005
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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date